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, DR 1197 July 1981

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METEOROLOGICAL DATA REPORT

19315B MLRS
Missile Number V28-002
Round Number V-172/AT-3
20 July 1981

by

DTICTE SEP 2 1981

DONALD C. KELLER Program Support Coordinator Phone Number (505) 679-9568 AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

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16. SUPPLEMENTARY NOTES	,
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)	•
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)	··
Meteorological data gathered for the launching	
number V28-002, Round Number V-172/AT-3 presented in	tabular form.
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INTRODUCTION

19315B MLRS, Missile Number V28-002, Round Number V-172/AT-3, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1043 MDT, 20 July 1981. The scheduled launch time was 0730 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations:

- a. Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3) , wind speed and direction, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air:
- (1) Low level wind data were obtained from Pilot-Balloon observations at:

SITE AND ALTITUDE

LC-33 2 KM NICK 2 KM

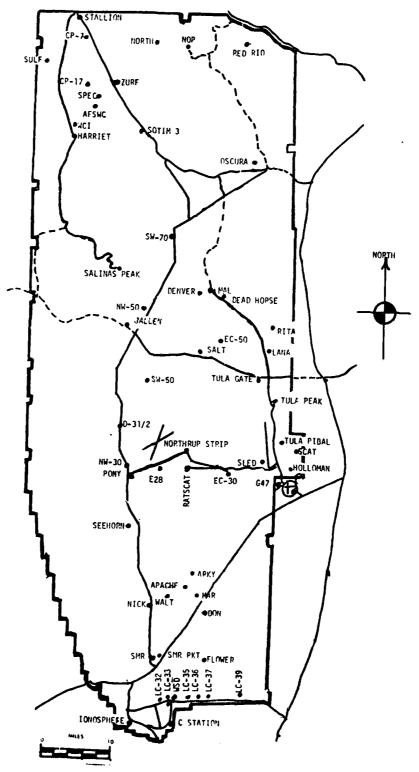
(2) Air structure data (rawinsonde) were collected at the following Met Sites:

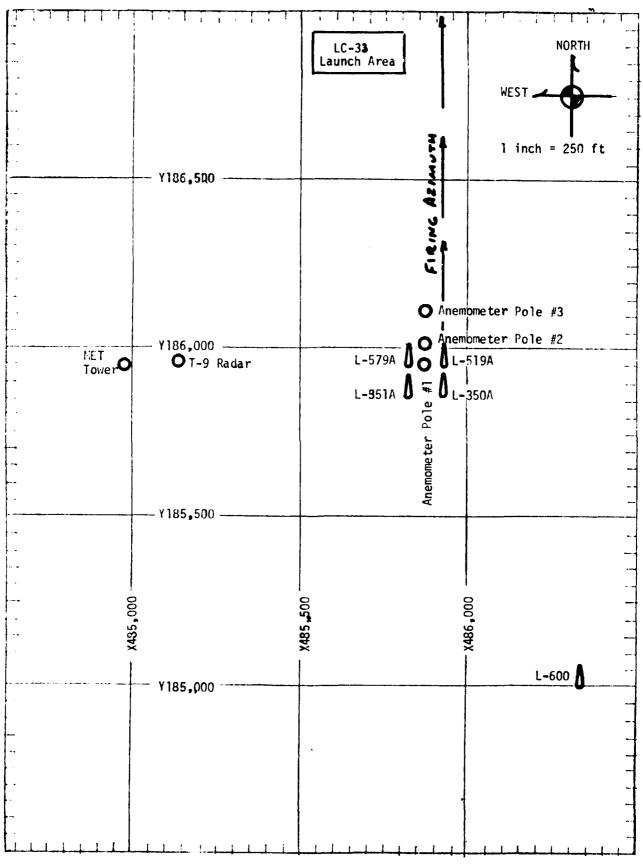
SITE AND TIME

WSD 0630 MDT LC-37 0730 MDT WSD 0830 MDT LC-37 0930 MDT WSD 1030 MDT

Accession For
NTIS GRAWI
DEIC T'S
Unannounced [
Justification
Ву
Distribution/
Availability Codes
Aveil and/or
Dist Special
A

WSMR METEOROLOGICAL SITES





PPOJECT SURFACE OBSERVATION

DATE 20 WINTH 1981 DATE DATE MAIND MIND TIME PRESSURE TEMPERATURE DEW POINT HUMIDITY DEMSITY DIRECTION SPEED CHARACTER VISIBIL M D. Mbs OF OC NO MIND Adegs In kts kts ITY 1043 882.7 31.7 12.5 31.7 997 358 05 50+	TABLE 1							S	STATION LC-33	33		
PRESSURE TEMPERATURE DEW POINT HUMIDITY DEMSITY mbs of of 31.7 12.5 31. 997	DATE 20		1981	_1				<i>7</i> 65	= 484,982,64	T=,	85,957,73 H	- 3983.0
882.7 31.7 12.5 31 997 358	11 PE M D T		TEIPE	ATURE OC	OFW P	OINT	PELATIVE HUMIDITY	DENSIIY gm/m3	DIRECTION degs In	MIND SPEED kts	CHARACTER kts	VISIBIL- ITY
	1043	882.7		31.7		12.5	31.	766	358	90		2 0+

REMARKS					
		167			
	LAYER	TYPE }			
3rd LAYER	AMT				
	CLOUDS 1st LAYER (2nd LAYER (25000		
CI OIDS		TYPE	13		
		AMT	2 CI		
		1 HGT	6500		
		TYPE	ਰ		
	lst		_		
OBSTRUCTIONS TO VISIBILITY		NONE			

PSYCHROPETRIC COMPUTATION

ŀ	_	
TINE: MDT	1043	
DRY BULB TEI'P.	31.7	
WET BULB TEMP.	18.9	
WET BULB DEPR.	12.8	
DEW POINT	12.5	
RELATIVE HUMID.	31%	

TABLE 2 LC-33 FIXED POLE ANEMOMETER MEROSPED WINDS 1043 MDT 20 July 1981

POLE #1 x485,874 Y185,958 H4018.74 38.7 ft	8.90 4		POLE #2 X485,874 Y186,012 H4033.57 53.0 ft.	1,93 2,00		POLE 7485,8 1186,1 44063. 83.6 f	77.) 16.06 92	
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DI R DE G		T-TIME SEC	DIR DEG	SPEED
T-30	013	04	T - 30	357	03	T = 3·)	015	04
T ₋₂₀	013	04	T ₋₂₀	356	, 02	T -21	020	04
T-10	006	04	T-10	355	03	T ₋₁₀	020	04
T0.0	011	03	T 0.0	354	03	T0.2	015	04
'T+10	003	04	T+10	342	03	T ₊₁₎	359	04

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 1: X484,982.64		73, H3983.00 (base)	LEVEL #2, 62 X484.982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	358	04	T-30	003	05
T - α 0	348	03	T-20	351	05
T-1 0	360	04	T-10	348	05
70.0T	348	04	To.0	349	05
<u>T+10</u>	348	04	T+1()	354	05

LEVEL #3, 10 X484,982.64	02 FEET , Y185,057.7	3, H3993.00 (base)	LEVEL #4, 20 X484,982, Y1		3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T- 30	003	05	T ₋₃₀	018	05
F 20	003	06	T-20	021	04
F 10	003	05	T ₋₁₀	033	04
10.0	013	05	T _{0.0}	033	04
† 10	012	05	T+1 0	026	04

THIME PILOT-DALLOOM MEASURED WIND ONTA

DATE 20 July 1981

SITE: LC-33

TIME: 1043 MDT

WSIN COOPDINATES:

 $\chi = 485,135.76$

^{γ=} 185,919.24 H= 3,988.57

SITE: NICK

TIME: 1043 MDT

WSTM COOPDINATES:

 $\chi = 470,734.56$

Y = 255,775.64

H = 4,126.57

LAYER MIDEDINT METERS AGE	DIRECTION DEGREES	SPEED KNOTS	LAYER MIDROINT METERS AGL	DIPECTION DEGPEES	SPEED KNOTS
SUPPACE	349	03	SURFACE	010	02
150	090	05	150	358	04
210	050	04	210	353	04
270	044	07	270	347	04
33.)	031	06	330	340	04
390	028	07	300	343	04
500	012	06	500	002	03
650	325	01	650	019	04
30 0	180	01	800	187	02
750	105	03	950	189	07
1150	096	02	1150	175	05
1350	083	02	1350	170	04
1550	061	03	1550	219	01
1750	043	03	1750	298	02
2000	058	03	2000	022	03

Data obtained from RAPTS T-9 radar Tracked Pilot-Balloon Observation.

Data obtained from Single Theodolite Tracked Pilot-Balloon Observation.

AIMING AND T-TIME COMPUTER MET MESSAGES 20 July 1981

WSD 0630 MDT	LC-37 0730 MDT	WSD 0830 MbT
METCM1324064	METCM1324063	METCM1324064
201250122881	201350124879	201450122 8 82
00391004 29530881	00249004 29820879	00249003 30170882
01407004 30130871	01232005 30020869	01250005 30120872
02343003 30340846	02206005 30180845	02250097 30050848
03425004 30060809	03293003 29970807	03271004 29980810
04418004 29690764	04564002 29650762	04260002 29680765
05344002 29210721	05624001 29200719	05006001 29250722
06131002 28770680	06633004 28770678	06019003 28840681
07068011 28 3 80 641	07073012 28350639	07066012 28390641
08056018 279606 0 3	08081015 27900601	08093017 27940604
0 908 3013 27470567	09093012 27430566	09107016 27500568
10093016 26990533	10087012 27010531	10138016 27060533
11078012 26550500	11113011 26610499	11166011 26720501
12132010 26140454	12104008 26140452	12126010 26380455

930 MDT	WSD 1030 MDT
063	METCM1324064
380	201650122883
30410880	00622006 30560883
30320870	01626001 30470873
30080846	02024005 30250848
29910808	03191002 30000811
29570763	04133003 29650766
29140720	05100003 29190723
28710679	06065004 28760681
28260640	07094011 28350642
27830602	08108014 27910604
27420566	09143015 27470568
27010532	10167009 27070534
26680499	11146006 26790501
26300453	12090009 26360455
	3063 30410880 30320870 30080846 29910808 29570763 29140720 28710679 28260640 27830602 27420566 27010532

SIGLIFICANT LEVEL DATA PRIODERROS WHITE SANDS

GEOURTIC COORDINATES 32.40043 LAT DEG 106.37033 LOD BEG

		Kt L. HUN.	PERCENT	0.00	52.0	0.44	41.0	43.0	0.05	0.4.	0.66	96.0	53.0	47.0	0.04	0.07	•
WHITE SANDS		LEMPERATURE	DEWPOINT CENTIGRADE	1. S. C.	14.7	15.8	13.9	T. ~	4.7	٥	£.≎.	2001	-17.3	-23.5	3.1	-24.1	
***	TABLE 6	IENPE	AIR DFGREES	20.2	25.3	28.6	28.4	22.0	15.0	8.1	-8.7	-9.3	-9.5	-14.5	6.41-	-17.2	•
1		PICESSURE OF UMETICE	ALTITULE MSL FELT	3989.0	4184.9	4505.9	5017.3	8182.0	10568.8	13564.2	19562.5	19968.7	20666.1	23140.4	23993.3	25167.6	•
1 0 SHI 183 10 1		PICESSURE	MILLIBARS	3.080	674.6	0.65.0	850.0	761.8	700.0	657.8			4,78.8	434.0	419.4	400.0	
ંજ																	

GFODETIC COORDITABLES 32.40043 LAT DEG 106.37033 LOU DEG	THUF X OF REFRACTION	KEFKAC 1100.	7 310011	1.000245	1.000284	1.000278	1.000272	1.000021	1.000202	1.000251	1.000246	1.000241	1.000256	1.000232	1.000227	1.0002;3	1.000218	1.000214	1.000209	1.000205	1.05000.1	301000-1	1.000192	1.000109	1.000186	1.000163	1.000179	0/1/000	1.000 L	1 0:01.7	1 - 0.00 16.0		1,000152	1.000147	1.000144	1.000142	1.000139	1.000136
55.00E.TI	SPEED KHOTS	K1015	•	 	3.6	3.4	က် က်	V 1	œ.	4.2	3.3	2.6	7.7	1.8	1.9	1.3	٥٠٧	ر م ا	6.7	10.1	12.9	13.4	13.5	17.9	17.0	17.7	17.2	0.	0.0	* :		0.01	11.0	7.6	9.0	9•3	4.6	10.0
	IND DATA UIRE, TION S DEGREES (TN) K	DEGREES 1147	0.073	217.1	215.1	212.2	2,555	239.6	7.027	540.42	230.5	218.5	2002	170.5	149.0	106.0	5.73	ĵ•. □ :	ς. .γ.	45.5	38.0	3.17	0.10	37.5	43.0	4.64	7.20	· • • • • • • • • • • • • • • • • • • •	2.	7.10	*	(4)	7	3.00	1.00	07.1	6.50	30.1
UATA 105 105	SPEFT OF SCUND NACLS	Nisci S MGG 4		5574°A	676.9	671.1	670.5	675.3	570.0	671.6	670.1	60,003	thu.	664.8	665.1	40194	660.2	656.9	657.5	0.50	1.450	1.000	**TC0	1940	640.4	2.44.9	_					034.1	6,550	530.1			b2d•4	627.1
PPT R A1 UM 2-1002PH453 WHITE SAIDS	DE ISITY GM/CHFIL MFTER	76 1F.K	1. FOUT	7.70U	975.6	2.296	944.1	950.0	96.34.0	89.00	887.0	87,20	865.1	854.4	845.6	832.3	A20.8	4.408	790.2	787.1	770.3	700.5	744.7	734.5	724.3	71.4.4	704.h	695.0	680.6	6/4.3	65/40	7.00	6 41. 7	627.2	615.3	605.0	590.1	58,,,7
_	REL_FUM. PERCETIT	<u>.</u>	0 0	59.0 46.1	41.2	41.3	41.6) H	200	42.9	43.9	45.4	46.9	48.3	49.8	50.6	51.2	51.9	52.6	53.2	53.9	0.0	64.8 84.8	68.5	72.3	76.0	79.8	30°5	5°.50	0.16		999	63.0	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	51.0	49.8		47.3
	TEMPERATURE R. DEWPOINT LES CLUTICRADE	LITTERADE	2.21	12.5	13.9	13.1	12.5	11.5	7 • OT	0.1	100	7.5	0• 0	5.7	8•†	5.0	3•0	5 . 5	1•3	.	ۍ . ا		- 7	10°	-3-1	8.5	J. 1. 5	5 • S.	-6.1) 	ກ • ′ • ′ ′	\• :: \• : \• : \• : \• : \• : \• : \•		7.7.	-12.3	₹	-21.1	6-77-
33393.0 FEET ESL 0636 лиз м.DT .3	IEMPE AIE. DEGRLES C		7.07	000 000 000 000 000	†• ₽¢	77.4	5.00	3	* * * * * * * * * * * * * * * * * * *	25.4	21.1	19.6	18.1	16.7	15.2	14.0	12.9	11.7	9•01	±•€	ດ. ສ	0 1	n - 1	2.7	1.3	-:1	-1.5	٠٠\ ا		, .	1:7	0 0		0.01	-11-2	-12.2	-13.2	-14.5
TUDE.	PRESSORE	HLLIBARS	0.000	80000	850.5	835.9	R21.6	30 / • 5	7.00.0	7,00.6	755.3	740.0	727.0	714.3	701.7	639.1	670.7	604.5	652.6	9•0±9	629.3	6010	544	583.3	572.4	501.6	5-1-1	- O#C	5,000	550.P	510.6	2.100	491.0	477.5	465.2	454.1	443.2	430.4
STATICH ALITUDE 20 JULY 81 ASCENSION NO. 40	OFO.4 TRIC ALITHOE ASL FEET I	_	1.00.000	4000.0	2000	5500.0	ŭ•û0u∩	0.0000	0.007	0.0000	0.0000	Julia.	0.0000	10000-9	10500.0	11000.0	11500.0	12000.0	12590.0	15000.0	1.55.00.0	14000-0	1.4500.0	15500.0	Londo.c	10500-0	17000-0	17500-0	13000.9	13504.0	19009-5	0.0000	0.0000	0.0001	0.00512	Z-000-7	0•UU¹, >>	4.3000 A

0.FOULTIC COMMITMATES	106•37033 004 DEG	Inut x of	NEFRACTION 1+000133 1+000120 1+000128
6.FOUL T1	100	1A SPEEU KROTE	5.6 7.6
		LINC DATA LINE LING SELECTION LINE CARE SELECTION	30°B
1 1 A 0.3 U.S	<u>.</u> '. ⊓	SPEEU OF SOUND ALOTS	57r.1 62p.6 565.2 026.3 55r.0 625.1
UFP, R. A.D. Enta 2n10020403 AHITE SAIDS	TABLE 7 CON'T	DE,SITY GM/CUG1, MFTER	57n.1 565.2 55n.0 547.0
	•	KEL, HIJM. PERCENT	44.0 40.1 44.3 48.6
ETSL DT	į	FRESSORE TERPERATURE RELIBING DESSITY SPEED OF MILLEDARS DECRES CENTICRADE METER METER NAMES OF	-24.2 -25.4 -25.2 -25.2
L 3yAgonu FEET SL OS SA HRS HDT 463		\Box	-14.7 -14.9 -15.9
<u> </u>	07.00	rktssukt HILLIUARS	427.8 419.3 410.9 402.7
STATION ALITTUDE O JULY 8.1 ASCLISION NO. 4	of O.s. TD1.	ALTITUDE FRESCORE	2.35,00 • 0 2.45,00 • 0 6.45,00 • 0

₹		3.6	5.4	3.1	1.8	6.2	18.2	17.0	13.3	5.5		
J ONI M	DIRECTION DEGREES(TN)	215.1	243.1	227.2	145.7	40.3	30.05	52.5	29.1	66.B	i	
KEL.HU.	PERCENT	41.	42.	* † †	.04	53.	63.	я0•	-66	•64	50•	
ERATURE	DE CPOINT CENTIGRADE	13.9	11.1	8.1	7. 4	1.1	-1.7	-4.5	H-8-	-21.1	-25•1	
•	AIK DEGREES (28.4	24.9	20.7	15.0	10.3	Q• 7	-1.7	-8.7	-12.7	-17.2	
EUPOTENTIAL	FEE.T	5014.	6772.	8019.	10558.	1c602.	14770.	17074.	19535.	22199.	25125.	
PRESSURE G	MILLIHARS	N56.p	น•00ส	750.0	100.00	650.0	U•009	550.0	200°D	0.054	0.00 p	
	RERATURE RELAMINA	GEUPOTENTIAL TEM.ERATURE KEL-HUD. AIR DEAPOINT PERCENT DIME FERT DEGREES CENTIGRADE	GEUPOTEITIAL TEM.ERATURE KEL.MI WIND DAIR AIR DEAPOINT PERCENT DIRECTION FERT DEGREES CENTIGRADE DEGREES(TM) 5014. 28.4 13.9 41. 215.1	GEUPOTEITIAL TEM.ERATURE REL.MI WIND DAIR AIR DEAPOINT PERCENT DIRECTION FELT DEGREES CENTIGRADE UEGREES(TR) 5014. 28.4 13.9 41. 215.1 3	GEUPOTEITIAL TEM.ERATURE REL.MIL. WIND DAIR FELT DIRECTION FERT DEGREES CENTIGRADE USCREES(TR) 5014. 28.4 13.9 41. 215.1 3 4 6772. 24.9 11.1 44. 227.2 3	GEUPOTEITIAL TEM.ERATURE REL.HIL. WIND DAIR LEET DEGREES CENTIGRADE UEKCENT DIRECTION FERCENT DIRECTION 5014. 215.1 3 4 4 5 50. 145.7 1 1 10558.	GEOPOTEITIAL TEM.ERATURE REL.HIL. WIND DAIL FE.T DEGREES CENTIGRALY DEGREES (TN) 5014 28.4 13.9 41. 215.1 3 6772 24.9 11.1 42. 243.1 4 8619 20.7 8.1 44. 227.2 3 10558 15.0 4.7 50. 145.7 1 12602 10.3 1.1 53. 40.3 7	GEOPOTEITIAL TEM.ERATURE REL.HIL. WIND DAIL FE.T DEGREES CENTIGRALY DEGREES (TN) 5014. 28.4 13.9 41. 215.1 3 6772. 24.9 11.1 42. 243.1 4 8619. 20.7 8.1 44. 227.2 3 10558. 15.0 4.7 50. 145.7 1 14770. 4.8 -1.7 63. 30.0 18	GEUPOTEITIAL TEMERATURE REL.HII WIND DAI FELT DEGREES CENTIGRADE DISCREES(TRI) 5014. 28.4 13.9 41. 215.1 6772. 24.9 11.1 42. 243.1 4 1058. 15.0 40.7 243.1 4 227.2 3 1058. 15.0 40.7 50. 145.7 145.7 145.7 145.7 145.7 145.7 145.7 145.7 145.7 145.7 145.7 145.1 145.7 145.1 145.7 145.1 145.7 145.1 145.7 145.1 145.7 145.1 145.7 145.1 145.	GEUPOTEUTIAL TEMERATURE REL.HI WIND DAI FE.T DEGREES CENTIGRAUF DIALCTION 5014. 28.4 13.9 41. 215.1 6772. 24.9 11.1 42. 243.1 1 6772. 24.9 11.1 42. 243.1 1 6572. 20.7 8.1 44. 227.2 1 1658. 15.0 4.7 50. 145.7 1 4657. 4.8 -1.7 40.3 7 1 1777. 4.8 -1.7 40.3 7 1 1777. -1.7 -4.6 52.5 17 1 2555. -8.7 -8.4 99. 59.7 13	GEUPOTEUTIAL TEMERATURE REL.MI WIND DAI FE.T DEGREES CENTIGRADE DIALCTION 5014. 28.4 13.9 41. 215.1 3 6772. 24.9 11.1 42. 243.1 4 10558. 15.0 4.7 50. 145.7 1 14558. 15.0 4.7 50. 145.7 1 14770. 4.0 -1.7 53. 40.3 7 17074. -1.7 -4.6 52.5 17 22199. -12.7 -21.1 49. 66.8 4	GEUPOTEITIAL TEMERATURE REL.HIL. WIND DAI FELT DEGREES CENTIGRADE DEGREES(TRI) 5014. 28.4 13.9 41. 215.1 245.1 42. 243.1 44. 227.2 34.1 34.1 42. 243.1 44. 227.2 34.1 34.2 243.1 44. 227.2 34.1 34.2 34.3 34.1 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2 34.3 34.2

6E ODETIC COOKDINATES 32-40175 LAT DEG 106-31232 LOW DEN																		
DATA	REL.HUM. PERCENT	55.0	48.0	0.00	0.5.4	0.04	54.0	67.0	82.0	7.3.0	0.09	0.03	33.0	64.0	45.0	74.0	65.0	01.0
SIGNIFICANT LEVLL DATA 2010140161 LC-37 FABLE 9	TEMPFRATURE AIR DEWPUINT DFGHEES CENTIGRADE	13.7			200			2 ct -										-36.7
SIGNIFI 2 LC TABLE 9	1EMF AIR DFGREES	23.2	26.6	27.1	22.5	15.4	8.0	٠,	0.9-	-7.4	-11.0	-11.5	-14.5	-17.2	-18.1	-21.4	-26.8	-31.7
115L D 7	PLESSURE GEOMETAIC ALTITUDE MILLIBARS ASL FEET	4051.4	4622.1	5016.0	7815,2	10559.6	13504.0	16282.9	18752.5	19552.6	21335.4	21783.7	240042	25167.6	25804.1	27184.3	30019.2	32075.7
STATION ALIITUUL 4051.37 FEET HSL 20 JULY 81 0736 HRS MDF ASCENSIUM NO. 101	PivESSUR MILLIBAR	9.48€	0.190	0.050	171.4	2000	n29•0	567.0	515.8	200∙0	7.994	158.0	419.2	0.004	3.69.6	368•4	327.4	300.0

. T					OFFICE ALK UAL	4 4 7		,		
STATISM ACTIONS	ווייטער יע	1031637 FEGT	ין קרוני ביים יו		2010470161	1 0		GEODE II	GEODETIC COOMITMATES	
ASC. 17 101 110		U/SO HIKS MUL	<u> </u>		LC-37			32.	32.40175 LAT DEG	
104c1172c1	•			,-	TABLE 10			106.	51252 LON DEG	
GEOMETHIC	PRESSURE	154	EMPERATURE	REL.HUM.	DENSIT,	SPEEN OF	ALMU DATA	ΤA	INUFX	
ALIIIUUE 1984 FELT	MILLIBARS	A IR DEGREES	DEWPOINT CENTIGRADE	PERCENT	GM/CUBIC METER	SUUND KNOTS	DIKF, TION DEGREFS(1N)	SPEED KNOTS	OF REFHACTION	
4051.4	-	23.2	13.7	55.0	1020.1	672.4	140.0	4.1	1.000246	
4500.0		25.9	14.5	49.5	1000.7	676.1	1.9.0	3.8	1.000293	
500 0• 0		27.1	13.8	44.2	979.9		1.59.0	3.5	1.000205	
5500+0	835.9	26.3	13.0	43.8	965.R		138.3	3.2	1.000279	
6∙0 000	•	25.5	12.2	43.6	952.0		143.9	2.5	1.000273	
0500°	80/08	24.7	11.4	43.5	934.5		104.0	1.7	1.000267	
0.0007		25.8	10.6	43.5	925.1	673.4	222.9	ο.	1.000261	
0.6057		23.0	6 •6	43.1	911.9	672.4	2-10-4	1.8	1 • 000256	
i-0000		22.0	0.6	# P P P	899.3	671.2	301.5	2.2	1.000250	
5500.0		20.7	ස • •	44.5	887.6	1.699	305.5	1.1	1.000246	
0.0006		19.4	7.4	45.6	870.1	068 •1	59.5	~	1.000241	
0.0002	126.1	18.1	9.9	46.7	864.7		114.5	1.3	1.000236	
0.0001		10.0	2•5	8°/5	853.5	_	H3•5	æ.	1.000232	
0.00501	0107	15.6	•	5 · 0 · 0	842.5		a•5	1.1	1.000227	
110000-0		5 · 5 ·	0•†	1.64	831.2		9.0%	5.9	1.000222	
13500.0	0,070	13.0	3.0	20.6	820.0	5000	657 6.03	ທີ່	1.000218	
12000-0	_	11.8	2•1	51.4	80H.9	658.9	27.5	7.2	1.000213	
1250000		10.5 10.5	1.2	52.3	79H.0	657.4	57.9	7. 6	1.000209	
00000	040.0	? •	N I	53.1	787.3	655.9	33.2	11.0	1.000205	
D.D.C.T		· ·	•	24.0	7.6.7		21.0	12.7	1.000201	
0.000+T	61/10	9.0	-1.5	56.3	766.3	_	44.5	14.2	1.000197	
14,500 - 13		N C	-2.5	58.7	756.0	651.0	1.94	15.7	1.000194	
6.600CT	0.440		0.5-	61.0	745.9	649-3	47.7	14.9	1.000190	
1.000.0		* ·	ລ•ຕຸ.	55.5	755.9	1.1.00	0 • 6 ±	14.1	1.000167	
10000	0.07	1•0		65.7	725.1	646.0	5000	12.7	1.000184	
0.01,401		?.	-5.5	68.3	710.1	6,440.5	51.5	11.7	1.000180	
Ů•0µ(r/1	227.0	-1.6	-6.1	71.4	705.R	8.740	54.5	11.7	1.000177	
1,000		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	9.9	74.4	695.7	641.3	5.5°5	12.0	1.000174	
•			-7-5	77.4	685.7	639.8	5. ± 50	12.5	1.000171	
0.66601		÷.0•	-8.5	80.5	672.9	638.3	2.90	12.4	1.000168	
0.000T	6.01C	9-6-	†•6-	79.2	665.A	636.9	3.7.5	11.9	1.0000	
195,00		-7-3	-11.2	73.6	655.3	635•H	59.0	11.2	1.000160	
20000	•	-8.3	-12.6	71.2	645.1	034•6	1.50	10.4	1.000156	
0.00c02		5°5	-13.9	69•3	635.0	633.3	n•+a	9.6	1.000153	
210005		-10.3	-15.2	67.3	625.2	632.1	6•60	8.9	1.000150	
21500.0	65	-11.5	-18.1	56.5	615.2	630.9	2.74	8.1	1.000145	
751100+D	454.1	-11.8	-22•8	39.3	0.4.	030-1	6.7.	7.4	1.000140	
22500.n	4 5.	-12.5	-23.9	37.7	594.4	6.650	5.7.3	7.0	1.000137	
	430.3	-13.1	-25.0	36.2	584.2	026.4	45.5	7.0	1.060135	
, 3500.	•	-13.8	U-92_	34.6	574.2	627.6	7.50	7.6	1.000152	
									J	

STATION ALIITUDE 4051.37 FEET MSL 20 JULY AL 073M MR MI	^15L	_	UPPER AIR DATA 20101H0161 LC-37	Alno 14		GE ODET 1	GEODETIC COORDINATES 32.40175 LAT DEG
_			F(=3,			106.	31232 L
		_	TABLE 10 COH'T	T-10			Ť
<	TEMPEKATURE	REL.HIM. DENSITY		SPERU OF	, INL DATA	TA.	INUEX
ω.	DEMPOSINT	PERCENT	t	Sourt	DIRECTION (TAX)	SPEED	OF SEEDING TION
z	DEGREES CENTICHADE		אני ובא היי	2	DEGREE STIND	0.024	NEW WALL STORY
•	-27.2	33.0	564.4	620.7	1.9%	7.6	1.000129
٠	-26.5	38.5	555.6	625+3	51.9	6.9	1.000128
ı	-20-1	44.1	54n.9		16.4	5.8	1.000126
1	-26.6	45.5	537.8		3 3	4.7	1.000124
ï	9.93	49.1	52 h . B		٧٠٧	3. E	1.000122
ï	25.6	59.6	520.5		17.6	2.3	1.000120
ï	6.45	70.1	512.3		24.6	1.7	1.000119
1	25.5	73.0	503.9		51.9	1.5	1.000117
1	-26.7	71.4	495.5		351.7	1.5	1.000115
ì	27.8	69.8	487.1		321.2	5.5	1.000112
1	59.0	68.2	479.0		311.1	0.4	1.000110
1	30.1	9•99	470.9		308.0	5.7	1.000108
1	31.3	65.1	463.0		308.0	7.0	1.000106
1	-32.6	64.1	455.5	610.2	309.6	7.7	1.000104
1	33.9	63.1	444.1				1.000102
ı	-35.2	62.1	0.04h				1.000100
•	36.5	61.1	433.B				1.00008

FEET MSL	
- 4051.37 FEET HSL	11
LIITUDE	10. 10. 101
STATION 20 JULY	ASCETTS TO:

CANDATORY LEVELS
2010160161

æ	SPEED KNOTS	S.	, pr			7.	197		٠,		ی ب		2	
WILL DAT	DIK, CTION DEGREES (TN)													
HEL.HUM.	PERCENT	• †	4.50	, c		2.5	•04	72.	7.3	39.	40.	20.	61.	
RATURE	DEWPOTING: ENTIGRADE	13.8	11.0	8	÷ ÷	1.0	-2.4	-6. 2	-11.4	-23.3	-26.0	-27.6	-36.7	
TFMyE	AIR DEGREES C	27.1	24.5	20.4	15.4	10.3	t.5	-1.a	₽• / -	-12.1	-17.2	-23.7	-31.7	
UPOTENTIA	FEET	5n12.	6765.	8609.	10549.	12594.	14760.	17061.	19525.	22193.	25125.	28370.	32011.	
PRESSURE GE	MILLIAAKS	P50.0	809.0	756.0	700.0	6.50 • 0	F.00.0	550.0	200.0	456.0	400.0	350.0	300.0	
	EL.HUM.	PRESSURE GEOPOTENTIAL TFM-ERATURE KEL-HUM. WIND DATA AIR DEWPOIM: PEKCENT DIK.CTION SPEED MILLIRAKS FEET DEGREES CENTIGRADE DEGREES(TN) KNOTS	GEUPOTENTIAL TFM-ERATURE KEL.HUM. WIHU DAT AIR DEWPOIN, PEKCENT DIR.CTION FEET DEGREES CENTIGRADE DEGREES(TN) 0 5612. 27.1 13.8 44. 139.0 3	GEUPOTENTIAL TEMPERATURE REL.HUM. WIHU DATAR PERCENT DIRECTION FLET DEGREES CENTIGRADE USGREES(TN) 0 5012. 27.1 13.8 44. 139.0 3	GEUPOTENTIAL TFM-ERATURE KEL-HUM. WIHU DATAR AIR DEWPOTH, PERCENT DIR-CTION FLET DEGREES CENTIGRANE DEGREES(TN) D 5012. 27.1 13.8 44. 139.0 3 D 6765. 24.2 11.0 43. 185.2 1 D 8609. 20.4 8.0 45. 104.0	GEUPOTENTIAL TFM-ERATURE REL.HUM. WIHD DATA AIR DEWPOIN, PEKCENT DIR.CTION DEGREES CENTIGRANE DEGREES(TN) D 5012. 27.1 13.8 44. 139.0 3 0 5755. 24.2 11.0 43. 185.2 1 0 8609. 20.4 8.0 45. 304.0 0 10549. 15.4 4.8 49.	GEUPOTENTIAL TFM-ERATURE REL.HUM. WIHD DATAR DEWPOIN, PERCENT DIR.CTION FEET DEGREES CENTIGRANE DEGREES(TN) D 5012. 27.1 13.8 44. 139.0 3 D 6765. 24.2 11.0 43. 185.2 1 D 8609. 20.4 8.0 45. 308.0 D 10549. 15.4 4.8 49. 52. 28.9	GEUPOTENTIAL TFM-ERATURE REL.HUM. WIHU DATAR DEWPOIN, PEKCENT DIR.CTION FEET DEGREES CENTIGRANE DEGREES(TN) 50 5612. 27.1 13.8 44. 139.0 3 60 665. 24.2 11.0 43. 185.2 1 60 669. 20.4 8.0 45. 308.0 10549. 10.3 1.0 52. 28.9 9 14760. 4.5 -2.0 60. 47.0 15	GEUPOTENTIAL TFM-ERATURE REL.HUM. WIHU DATAR DEWPOIN, PEKCENT DIR.CTION DEGREES CENTIGRANE DEGREES (TN) 10 5612. 27.1 13.8 44. 139.0 3 10 6765. 24.2 11.0 43. 185.2 1 10 10549. 20.4 8.0 45. 308.0 10 12594. 10.3 1.0 52. 28.9 9 14760. 4.5 -2.0 60.4 47.0 15	GEUPOTENTIAL TFM-ERATURE REL-HUM. WIHU DATAR DEWPOIN, PEKCENT DIR.CTION DEGREES CENTIGRANE DEGREES(TN) 1 5012. 27.1 13.8 44. 139.0 3 1 6765. 24.2 11.0 43. 185.2 1 1 6769. 20.4 8.0 45. 308.0 1 1559. 15.4 4.1 49. 5.9 9 1 12594. 10.3 1.0 52. 28.9 9 1 1760. 4.5 -2.1 60. 47.0 15 1 176611.8 -6.2 72. 54.9 11	GEUPOTENTIAL TFM-ERATURE REL-HUM. WILLU DATA AIR DEWPOIN, PERCENT DIR-CTION DEGREES CENTIGRANE DEGREES(TN) 50 5012. 27.1 13.8 44. 139.0 3 50 6765. 24.2 11.0 43. 185.2 1 6765. 24.2 11.0 43. 185.2 1 10549. 15.4 4.8 49. 50.0 12594. 10.3 1.0 52. 28.9 9 14760. 4.5 -2.1 60. 47.0 15 170611.8 -6.2 72. 52.5 11 2219312.1 -23.3 39. 63.5	GEUPOTENTIAL TFM-ERATURE REL-HUM. WILLU DATA AIR DEWPOIN, PERCENT DIR-CTION DEGREES CENTIGRANE DEGREES(TN) 5012. 27.1 13.8 44. 139.0 3 5012. 27.1 13.8 44. 139.0 3 5012. 27.1 13.8 44. 139.0 3 5012. 27.1 13.8 44. 139.0 3 5012. 27.1 11.0 43. 185.2 1 6019. 20.4 8.0 45. 50.0 1 6019. 15.4 4.0 52. 52.9 9 6019. 17.0 4.5 -2.0 60. 47.0 15 6019. 17.0 1.0 12.1 -23.3 39. 63.5 7 6219312.1 -23.3 39. 63.5 7 6219517.2 -26.0 40.1 14.3	GEUPOTENTIAL TFM-ERATURE REL.HUM. WILLD DATA AIR DEWPOIN, PEKCENT DIR.CTION FEET DEGREES CENTIGRANE 5612. 27.1 13.8 44. 139.0 3 6765. 24.2 11.0 43. 186.2 1 8609. 20.4 80. 45. 308.0 10549. 15.4 4.8 49. 528.9 12594. 10.3 1.0 52. 28.9 14760. 4.5 -2.0 60. 47.0 15 170611.8 -6.2 72. 52.5 11 2212312.1 -23.3 39. 63.5 7 2837023.7 -27.6 70. 314.3 5	GEUPOTENTIAL TFM-ERATURE REL.HUM. WILLD DATA AIR DEWPOIN, PEKCENT DIR.CTION FEET DEGREES CENTIGRANE 5612. 27.1 13.8 44. 139.0 3 6765. 24.2 11.0 43. 186.2 1 8609. 20.4 80.0 45. 308.0 10549. 15.4 4.8 49. 508.9 12594. 10.3 1.0 52. 28.9 14760. 4.5 -2.0 60. 47.0 15 170611.8 -6.2 72. 52.5 11 2512517.2 -26.0 40.0 14.3 5 2512517.2 -26.0 40.0 324.8 2 3501131.7 -36.7 61.

JYHYTO FEET MSL	TOPE SHIP ISON
	ASCEUSION NO. 464

6EUDETIC CO040114ATES 32.40043 LAT DEG 106.37033 LOH CEG

UATA	HEL. HUM. PERCENT 40.0 48.0 48.0 43.0 43.0 43.0 82.0 81.0 50.0 41.0 56.0
SIGIIFICANT LEVEL 2010020469 WHITE SANUS	3LE 12 1EMPERATURE 1R DEWPOINT NEES CENTIGHADE 0 13.4 0 13.4 13.4 13.4 13.4 13.4 13.4 13.4 13.4
SIGH	7AE 0156 255 255 255 256 266 156 156
830 IKS MDT	PAESSURE GLOGIETRIC ALTITUDE ALTITUDE ALTITUDE 581-8 3989-0 656-0 5052-3 637-8 5470-4 799-4 6826-0 751-4 4899-3 700-0 19606-3 476-0 20867-6 460-4 21716-7 422-8 23868-6

STATION ALITTUD	. 39	3989.00 FEET MS	T MSL	_	UPPLR AIR UAT ZalnOzuqéa	0 t t 0 t 1 t 1 t 1 t 1 t 1 t 1 t 1 t 1		ot 00£11	OF ODE TIC COMMINATES
ASCE (\$10). 10	₩a+ •0':	3	5	, —	WALLE SANOS	ŝ		32. 106.	32.40043 LAT DEG 106.37033 LON DEG
GEUIN TRIC	PRESSURE	FEMP	FEMPERATURE	HEL.HUM.	UENSITY	SPEE, OF	INC DATA	T	INUEX
ALTITUDE	#11 L 1 AR	AIN	DEMPOINT	PERCENT	ر	OHIOS	DIRECTION	SPEEU	40
	2001	DEGINEES	CENTIONADE		1 L	N N N	DEGRETS OF N	X ION X	KEFIRACT 10K
3489.0	981.8	26.8	12.1	40.0	1017.4	676.H	140.0	2.9	1.000286
1000±	841.5	20.8	12•1	40.1	1017.6	070.1	1+0+1	5.9	1.000246
4500.0	800°4	25.9	12.7	43.8	1002.7	_	1+3+1	3.2	1.000246
200000		25.1	13.2	47.6	980.0	-	145.0	3.5	1.000285
5200•û		25.9	13.3	45.9	964.1		147.7	3.9	1.000201
0.0000		25.4	12.5	44.8	953.h		149.3	0.4	1.000274
0500.0		24.8	11.7	43.7	934.1		150.7	0.4	1.0002tvA
7000.9		24.1	10.9		925.3	673.A	148•0	3.8	1.000262
7500.0		23.1	10.1	43.8	912.5		143.0	3.6	1.000257
0.000		22.1	∵ 66	tt e 3	90n.n		141.5	2.3	1.000252
3500.6		21.1	8.7	6.44	887.6		144.0	8.	1.000247
9000A		19.8	8•0	46.4	876.0	_	37.0	.2	1.000243
0.0056		18.5	7.3	48.2	864.8	0.700	ດ • ຄ		1.000238
10000.		17.1	9•9	6.64	853.7	-	15.3	1.2	1.000234
0.00°.01.		15.8	æ .	51.7	842.7		27.6	1.5	1.000250
11000.0		۲.۰۰ د د د د د د د د د د د د د د د د د د د		53.5	831.2	_	2.02	2.3	1.000226
11500.0	6.0/0	13.2	# 1 # 1	55.3	814.7	660 • A	42.0	3.7	1.000221
0.00021		٠,	3• 7	5/•2	30H.		4.77		1.000217
14:00:0	2.500	9.0	3•0	59.1	7.97.2		28.9	8.7	1.000213
0.00051) (N :	6.00	7967	_	D•66	10.2	1.000209
0.0001		0.0)	29.29	175.4		/ • T • T	12.8	
14500.0		0 t	0 •	04.0	7.40/	_	T•/h	15.2	1.00001
0-00041		0 0	C • •	n • 00	5-407		D :	10.5	1-04197
0.00501		0	10.6	000	2		ສ - ເກີ.	17.5	#61000·1
15.000.0		1.6		79.07	E 1		1.00	? · / ·	051000-1
16500.0		17	T A	0.57	714.0	2 to 1	N 4	0 d	1.0001
17000-9		6.	L.4-	75.7	704-1		0.90		1.000179
17,000.0	541.7	-2.2	-5.6	77.6	694.6	_	71.9	15.4	1.000170
100001		-3.5	-6.5	79•4	685.1		78.0	14.9	1.000172
18509.0	521.9	L-4-7	-7.5	80.8	675.6	_	7.40	14.0	1.000169
19009-6	511.9	-5.6	-8.5	79.5	664.13	_	41.5	12.1	1.000165
19500-6	202.	7.0	ان•د	78.3	654.3	6.57.0	6.56	10.7	1.000162
2.00007	**************************************	-7:1	-11.8	69.3	643.0	6300	იტი	9.6	1.000157
2020a+B	482.4	8./-	-14.6	58.2	63,3.0	635.1	0.Çu	8.9	1.000152
0.00012	C • C •	ກ. ສຸດ	-17-4	48.6	622.46	_	17.1	8.3	1.000147
J.10012	C • • • • • • • • • • • • • • • • • • •	C • 6 •	100.1-	7°53	617.3		/**/	7.6	1.0001
0.00022		10.0	6.00	40.3	600 c		3. 50	7.9	1.000140
6.00000		2.01-	© • 6 6 6 6 1	39.2	597.2		o.l.:	ತ ಬ	1.000138
7 - 11.1.1.5 3		6.11	11.07	30.11	い・シェク	t: 50 • 5	0.7.	1.1	1.000135

04 0DETIC COORDINATES 32.40043 LAT REG 106.37033 LON REG	INDEX OF REFRACTION	1.000286	1.000286	1.000286	1.000285	1.000201	1.000274	1.000268	1.000262	1.000257	1.040252	1.000247	1.000243	1.000238	1.000234	1.000230	1.000226	1.000221	1.000217	1.000213	f.02000-T	1.000205	1.000197	1.000144	1.000190	1.000186	1.000182	1.000179	1.000176	1.000172	1.000169	1.009165	1.000162	1010101	2410001	1.000147	1.0001	1.000140	1.000138
ot ODE 110	TA SPEEU KNOTS	2.9	5.9	3.2	3.5	3.9	0.4	0.4	3.0	3°t	2.3	₽.		۲.	1.2	1.5	2.3	3.7	ا کو ا	8.7.	7.01	12.8	15.5	17.3	17.3	16.8	15.8	15.5	3°01	14.9	14.0	12.1	10.7	c (S .	۳. ۱	o :	•	7.7
	INL DATA DINELTION S DEGREES(IN) K	140.0	140.1	1+3+1	145.6	147.7	149.3	1:00-1	148.t	143.0	141.5	144.0	37.0	c. 5	15.3	27.6	Z-927	75.0	b•27	28.9) • C ·	(†)	T	.11.0	1.50	¥•¢¢	*•0÷	ŋ•ŋ <u>•</u>	71.5	n•9/	7. to	71.5	? • ? ; • ? ;	n :	20.00	77.1		ာ : တ	47.5
H UATA Hubs Auds CON'T	SPEED OF SOUND KNOTS	676.H	07007	675.9	675.1	0.970	675.3	674.7	673.A	672.6	671.4	6701.2	phb.n	0 · / ciq	4.500	063.A	662.3	₽€09•H	659.2	657.7	0.000	654.6	653•1	650.0	648·4	540.d	1045+3	643.7	642.1	9.049	1.650	636.0	6.57.0	0.000	655.1	634.2	5.cca	632.2	654.5
UPPER ATH DAT POLNOZNAGU WHITE SANDS TABLE 13 CONT	UEHSITY S GM/CURIL METER	1017.9	1017.6	1002.7	980.0	964.3	953.6	934.1	925.3	912.5	0.006	887.6	876.0	864.8	853.7	842.7	831.2	814.7	80H.4	7.77.2	2.00/	175.4	7-40/	743.0	733.B	72.5.7	713.9	704.1	9.469	685.1	6/5.6	£ 4.09	654.5	0.0.0	55.50	622.6	5170	2.×09	α.γ. α.γ. α.γ. α.γ. α.γ. α.γ. α.γ. α.γ.
-	REL.HUM. PERCENT	40.0	40.1	43.8	47.6	45.9	44.8	43.7	43.2	43.8	£ 44	6.44	46.4	48.2	6.64	$\frac{51.7}{2}$	53.5	55.3	57.2	59.1	6.00	62.8	66.5	68,3	70.2	72.0	73.9	75.7	77.6	± • 6/	80.8	6.67	78.3	0.00	24.6	48.6) • O :	0.0	38.0 38.0
T eist	TEMPERATURE IN DEMPOINT LES CLHTIGRADE	12+1	12.1	12.7	13.2	13.3	12.5	11.7	10.9	10.1	†• 6	8.7	0∙8	7•3	9•9	5.8	5•1	# (3.7	0.0	2.7	1 • t	•	1	-2-0	-2.9	8•K-	7.41-	-5.6	ဂ (()	-7.5	က က	9 •6-	0.11-	1.4.1.	-17-4		6.02	-23.0
3989440 FEET M 0831 LRS MDF 4	TEMPI AIN DECREES	26.8	20.8	25.9	25.1	25.9	25.4	54.8	24.1	23.1	22.1	21.1	19.8	18.5	17.1	15.8	14.5	13.2	11.3	9.00) • (0.0) (C	200	2•9	1.6	ņ	6.1	2.5	n•n-	· · · ·	o•c-	• t		9.7-		0.00	1001	-11.6
17 J	PRESSURL MILLIDARS	981.8	841.5	800.4	851.5	830.9	822.6	800.5	94.0	780•8	101.5	154.0	740.8	127.8	715.0	702.4	9.689	6,079	4.494	2000	7.00	6.020	605.5	504.4	587.5	572.7	202.5	551.0 1	541.7	7.100	521.9	6 • TTC	1.200	0 764	10701	1.5.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	C + 0 + 7 = 7	0 m	437.6
5741,68 /LITU 20 JILY 31 854E \$106 40.	GEO, IF TRICALITY OF PERT	3489.0	J•000+	4500.0		5.000cs	3•600a	0.0000	C•Uu0/	7500.0	•	•	•	9500•	•	٠	11000.0	150n	2000	1.5500.0	0000	10598.0	14507.0	000	_	•	10500.0	•	000/	10000	10:00	0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.00361	3.00000	•	•		0.00077	23000.0

.FODETIC COOKDINATES 32.40043 LAT DEG 106.37033 LON LEG	Inut x OF REFRACTION	1.000132 1.000130 1.000129
.,FODET1C 32.4u 106.37		9•9
	"IND DATA DIRFCTION SPEED DEGREES(IN) KNOTS	0.00
1, NO.		572.6 629.4 563.3 628.3 554.8 626.8 546.4 625.3
PATE SALUS WHITE SALUS TABLE 13 CON'T	HEL.HUM. DENSITY SPEEL OF PERCENT GM/CUBIC SOUND METER KNUTS	572.6 563.3 554.8 546.4
5	REL.HIM.	36.9 37.8 44.7 51.6
т nSL h ฏ т	GEOWETHIC PRESSURE TEMPERATURE HALTAINUNE AIK DEWPOINT HISE FEL MILLIWARS DEAKTES CENTIGRADE	-24.0 -24.5 -23.8
3489.00 FEFT 115L 083n 11115 HIDT	TEMP AIR DEGREES	-12.3 -13.2 -14.5 -15.8
111UUL 3y8 0 .0 404	PRESSURE HILLIDARS	429.0 420.6 412.2
STATION ALITIULE SO ULT BE ASCETISTON NO. 40	GEUNETHIC PRESSURE ALTAINUE NSC FEET MICLIDARS	0.000452 0.004452 0.0064552

LANDATORY LEVELS	2n1002n464	WHITE SALLUS
The state of the s	STATION ALITIDE SYSS-NO FEET MSL	ASCENSION NO. 464

TEM!ERATURE RE AIR DEWPOIN! PE 25.0 13.2 24.5 11.1 20.4 8.5 10.4 2.4 4.8 -77 -1.2 -4.4 -6.6 -9.8	ITAL TEM; ERATURE HEL.HUM. WIND DA	464 BSO NKS MOT		—	2010020464 WHITE SAMUS TABLE 14	4 V		6E0DETIC COOKUTUATES 32.40043 LAT DEG 106.37033 LOIJ DEG
FEET DEGREES CENTIGRANF DIRFLEION DIRFLESTIN)	FEET DEGREES CENTIGRANF PERCENI DIRPLETON DIRP	ř	OPOTENTIAL	TEM! AIR	ERATURE DFPOT.	KEL . HUM.	MIND DA	NIA.
5049. 25.0 13.2 46. 145.6 64.6 64.6 67.9 46. 145.6 67.9 64.6 15.5 10.1 10.1 10.1 10.1 10.1 10.1 10.1	5049. 25.0 13.2 46. 145.6 6799. 24.5 11.1 43. 150.6 8644. 20.8 8.5 45. 150.1 10586. 15.5 5.7 52. 29.2 12633. 10.4 2.8 59. 30.1 14601. 4.8 -7 67. 51.3 17108. -1.2 -4.8 76. 67.4 19578. -6.6 -9.8 76. 64.6 22262. -10.5 -21.5 40. 64.6 25208. -16.4 -23.3 55.			EGREES	CENTIGRALLE	reacen.	DIK, C. LON DEGREES(TN)	SPELD KNOTS
6799. 24.5 11.1 43. 150.6 8644. 20.6 8.5 45. 150.6 150.1 10586. 15.5 5.7 52. 29.2 120.33. 10.4 2.8 59. 30.1 14801. 4.8 -7 67. 51.3 171081.2 -4.8 76. 67.4 195786.6 -9.8 76. 64.6 55.08	6799. 24.5 11.1 43. 150.6 8644. 20.8 8.5 45. 150.6 150.1 10586. 15.5 5.7 52. 29.2 126.33. 10.4 2.8 59. 30.1 14801. 4.8 -7 67. 51.3 171081.2 -4.8 76. 67.4 195786.6 -9.8 76. 64.6 2526210.5 -21.5 40. 64.6 2520816.4 -23.5 55.		5049.	25.0	13.2	47.4	# X = X = X = X = X = X	V
8644. 20.6 8.5 45. 150.1 10586. 15.5 5.7 5.2 29.2 126.33. 10.4 2.8 59. 30.1 171081.2 -4.8 76. 67.4 195786.6 -9.8 76. 64.6 55.0 57.0 51.3 55.0 55.0 55.0 55.0 55.0 55.0 55.0 55	8644. 20.6 8.5 45. 150.1 10586. 15.5 5.7 52. 29.2 126.33. 10.4 2.8 59. 30.1 14801. 4.8 -7.7 67. 51.3 171081.2 -4.8 76. 64.6 2526210.5 -21.5 40. 64.6 2520816.4 -23.5 55.		6629	24.5		; ;	3.04	9.0
10586. 15.5 5.7 52. 29.2 120.1 140.1 140.1 14.8 7 67. 51.3 171081.2 -4.8 76. 67.4 195786.6 -9.8 76. 64.6 54.6 54.6	10586. 15.5 5.7 52. 29.2 120.1 14001. 4.87 67. 51.3 171081.2 -4.8 76. 67.4 195786.6 -9.8 76. 64.6 2526210.5 -21.5 40. 64.6 2520816.4 -23.3 55.		8644	20.8	8.5) ii	0.001	۶.°C
12033. 10.4 2.4 59. 29.2 17.00. 4.8 -7.7 57. 51.3 195786.6 -9.8 76. 64.6 54.6 55.08	12633. 10.4 2.4 59. 29.2 140.1 4.87 67. 51.3 171081.2 -4.8 76. 67.4 195786.6 -9.8 76. 91.8 2226210.5 -21.5 40. 64.6 2520816.4 -23.3 55.		10586.	15.5		ָ בּי		.
14601. 4.87 67. 51.3 171081.2 -4.8 76. 67.4 195786.6 -9.8 76. 91.8 2226210.5 -21.5 40. 64.6	14801. 4.87 67. 59. 30.1 171081.2 -4.8 76. 51.3 195786.6 -9.8 76. 91.8 2256210.5 -21.5 40. 64.6 2520816.4 -23.3 55.		126.43			24.		1.6
171081.2 -4.4 76. 51.3 171081.2 -4.4 76. 67.4 195786.6 -9.4 76. 91.8 2226210.5 -21.5 40. 64.6	171081.2 -4.4 76. 51.3 171081.2 -4.4 76. 67.4 195786.6 -9.4 76. 91.8 2226210.5 -21.5 40. 64.6 2520816.4 -23.5 55.			7	¥.	29.		8. 5
1/1081.2 -4.8 76. 67.4 195786.6 -9.8 76. 91.8 2226210.5 -21.5 40. 64.6	1/1081.2 -4.8 76. 67.4 195786.6 -9.8 76. 91.8 2226210.5 -21.5 40. 64.6 2520816.4 -23.5 55.		14001.	8	~:	67.		7.3
19578. -6.6 -9.8 $7a$ 91.8 22262 -10.5 -21.5 40 64.6	195786.6 -9.8 76. 91.8 2226210.5 -21.5 40. 64.6 2520816.4 -23.3 55.		1/108.	-1.5	エ・サー	76.		3
2226210.5 -21.5 40. 64.6	2226210.5 -21.5 40. 64.6 2520816.4 -23.3 55.		19578.	9.9-	₩•6-	78.		7 tf
0.500 11 11 0.500 04.0	2520816.4 -23.3 55.		22262.	-10.5	2010) i
	C.CZ. +101.		0500B	1 2 1		•		8.3

ION ALTITUDE 4051.37 FEET HELINEL NOT NEST HELINEL NOT NEST HES MOT NEST HELINEL NOT NEST H	+5L	SIGHIFICAN 2010 LC-37	SIGNIFICANT LEVEL DATA 2010 Limitoz LC-37	A.A	GEODETIC COORDINATES 32.40175 LAT DEG 106.31232 LON DEG
		TABLE 15			
PirESSUILE	PICESSUIL GEOMETRIC	Ę	ATu .E	REL.HUM.	
		AIR	DEWPOINT	PERCENT	
MILLIBARS	S MSL FEET	DEGREES C	CENT 16KADE		
5.80.5	4051.4	29.4	11.0	32.0	
650.0	5067.3	25.9	1n.9	39.0	
917.4	6196.8	54.9	4.2	37.0	
159.8	8288.9	50.9	3. °	9.65	
100.00	10595.4	14.9	5.7	47.0	
4.606	14518.2	छ •	-3.0	58.0	
572.0	16074.0	3	6.2-	76.0	
0.47.0	17249.9	-2.1	-4.2	58.0	
530.6	18043.5	-3.9	6.6−	63.0	
522•6	18437.6	-5.0	1.00	77.0	
506.4	19251.4	-5.7	-14.7	0.64	
90000	19578.9	-6.7	-14.0	56.0	
8.064	20055.3	-7.9	-14.5	59.0	
483.0	20465.1	-7.9	1.01-	39.0	
9.654	21727.3	-11.2	-25.3	30.0	
436.8	23012.0	-11.4	-22.0	41.0	
0.004	25210.5	-16.9	-24.7	46.0	
379.2	26523.5	-19.6	-24.5	65.0	
358.4	27895.8	-22.4	-24.4	58.0	
337.0	29374.6	-52.9	9*62-	71.0	
300.0	32117.3	-31.5	47.3	56.0	

4051.37 FEET 0 Q3n HRS M	#:SIL	IPPER AIR DAT 20101H0102 LC-37	41A		oFUDETIC 32+HL	C COORDINATES 40175 LAT DEG
	TABL	TABLE 16			106.	106.31232 LON DEG
LEMPERATURE		DELISITY SI	SPEED OF	INU DAT	4	INNEX
AIR DLWPOINT DEGREES CEUTIGRADE		ن	SUUND KNOTS	DIRECTION DEGREES(IN)	SPEEU KNOTS	OF REFHACTION
29.4 11.0	32.0	1007.H	9.679	ɔ.	0.	1.000279
27.9 11.0	35.1	997.3	677.A	1.6.1	٤.	1.000277
10.	38.5	985.9	675.9	179.0	.7	1.000275
10	38.2	971.2	675.2	1<9.0	•	1.000270
0	37.3	950.1	9.4.6	129.0	1.5	1.000264
24.5	3/•3	942.1	673.7	150•8	0.0	1.000259
	38.2	915.9	47.194	5.47	9.0	1.000249
ν.	38.7	903.1	670.3	114.1	2.6	1.000245
6.2	39.7	890.8	669.0	36.5	•	1.000240
5.7	41.5	874.1	667.5	70.0	•	1.000237
5•1	43.2	867.6	0.499	6.3.3	•	1.000233
4.5	6.44	856.2	504 • 4	9•69	•	1.000229
φ. •	46.7	845.0	645.9	24.0	0°0	1.000225
3.6	48.1	853.R	661.3	1.8.	2 .	1.000221
2.2 0.21	יים אינו סיים אינו	822.6	659.8	1.00	3 t	1.000217
9. 6.6	52.3	800.7	6500	5.45 5.45	6.7	1.000209
٠.3	53.7	790.0	655.0	59.1	9.1	1.000205
-1.2	55.1	774.5	053.4	す・む す	11.7	1.000201
-2.1	56.5	764.1	651.A	46.1	13.7	1.000197
 	57.9	74.9	650.2	200	74.7	1.000193
2.2 -2.8	h•69	737.2	047.5	54.7	'n	1.000169
	75.1	72b.h	1.040	0.6c	ഗ	1.000167
-5•1	69.5	716.4	6.44.5	2.44	S	1.000181
	51.8	70h.5	045.0	7.60	74.4	1.000175
3 6	7.63	20.00	7.170	0.01		1.1000.1
0 et •	0	675.0	48.4	4	J -	1.00016.7
110	7.6	964.4	637.0	7.00	• •	1.000160
-14.1	F. T	654.1	0.30.7	1.10.7	סכ	1.000157
-14.4	8.7	644.7	135.1	100.0	7. 2.	451000.1
-19.5	38.8	63.5.1	534.7	7.67	3.0	1.000148
-21.8	35.2	623.9	63341	7-80	8.2	1.000145
-24.5	31.6	614.9	631.5	5.0%		1.000142
-54.	32.3	604.3	6.30 . 7	1.10	7.3	1.000139
-23.	36.6	592.6	630·6	45.4	•	1.000137
1.4 -22	ċ	-	b30•t	•	•	1.00135
-12.6 -22.8		57, 2	1.00.1	3.0	0	1.000133

GEODETIC COOMDINATES 106-51232 LON DEG 106-51232 LON DEG A INJEX SPEEU 6-7 I-000131 10.0 I-000124 7-7 I-000124 7-7 I-000124 7-7 I-000124 7-7 I-000124 7-7 I-000114 7-7 I-000114 7-7 I-000116 5-0 I-000116 5-5 I-000116 3-5 I-000116 3-5 I-000116 3-5 I-000116	1.000102 1.000100 1.000098
9 7 9	
1 100 100 100 100 100 100 100 100 100 1	
6 DIRECTION DEGREES(1N) K DEGREES(1N) K 10.9 2.6 3.55.0 3.40.9 3.40.9 3.40.9 3.40.9 3.40.0 3.40.0 3.40.0 3.40.0 3.40.0 3.40.0 3.40.0 3.40.0 3.40.0 3.40.0	
52 SPEEU OF SOUND KNOIS 627.6 627.6 627.6 627.6 620.7 620.7 619.4 618.1 615.3 615.3 619.4 611.2	608.6
PFR AIK 20101AH11 LC-37 LC-37 ABLE 16 C(DENSITY GM/CUBI. METER 555.7 555.7 555.7 554.7 554.7 6495.9	449.0 441.5 434.1
REL.HIJM. PERCENIT. 43.2 44.4 45.5 50.2 50.0 63.3 63.3 67.7 70.3 64.8	62•1 59•4 56•6
FEET MSL HRS M DT TEMPERATURE R	-34.1 -35.6 -37.0
1.37 FEE 930 HRS 018 OLEGREES -13.9 -15.4 -15.4 -15.6 -20.6 -21.6 -21.6 -21.6 -25.0 -25.0	-30.2
ITUDE 405 10. 162 010. 162 MILLIMARS 419.9 411.5 403.4 397.4 377.6 374.6 374.6 374.6 374.6 374.6 374.6	306.0
	51100.0

650beTic COOMDINATES 52-40175 LAT 0EG 106-31232 LON 0EG	WIND DAIA	DIRICTION SPEED JEGRLES(TN) KNOTS	129.0	131.8 2.3				49.3 15.4					343.0	
VELS o2	KEE.HIM.	PERCENT		38.									63.	
F.A.UDATORY LEVELS 2010146162 LC-37	TABLE 17 TFMPERATURE	AIR DEMPOINT DEGREFS CENTIGRADE	10.9	8•4	6•1	3.7	†	-2.4	-8.4	-14.0	-23.4	-25.7	-28·B	-37.3
2	T. TFMp§	AIR DEGREFS (25.9	23.7	19.9	14.9	9.5	3.8	-1.7	-6.7	-11.3	-16.9	-23.7	-31.5
T dsL MDT	EGPOTENTIAL	FEET	5064.	6810.	8550.	10505.	12625.	14785.	17084.	19551.	22226.	25168.	28415.	32052.
STATION ALIITUUL 4051.37 FEET 4SL 20 July 61 Asclasion no. 162	PRESSUNE GEOPOTENTIAL	MILLIPAKS	A50.0	0.008	15/:•0	0.007	6.50.0	600.09	550.0	500.0	450.0	Û•00ħ	350.0	300.0

6£00e11C COMBINATES 32.40043 LAT DEG 106.37033 LOM DEG																				
₩		KF L. HUM.	PLHCENT		31.0	41.0	41.0	38.0	0.00	0.40	72.0	62.0	79.0	26.0	54.0	3.45	31.0	54.0	31.0	45.0
SIGNIFICANT LEVEL DATA 20100-0465 WHITE SANDS		TEMP ERATURE	DEWPU111	DEGKEES CENTIGRAUP	11.7	13.2	11.7	†* 6	3.3	٠.	5.7-	10.1	-7.1	-11.5	-13.7	-20.0	-25.5	-21.1	-27.6	-25.0
SIGGIFIC	TABLE 18	TEMPE	AIR	DEGKEES	30.8	27.6	26.0	24.7	14.9	9.1	2•0	-2.9	0.4	0.4.	6.5	-6.8	9.6-	-13.8	-14.2	-16.5
45L T		PICESSURE SEUMETRIC	ALTITUDE	MILLIBARS MSL FEET	3989.0	5087.2	5567.0	7001.0	10528.3	13046.5	15766.2	17737.3	18260.6	18543.0	19527.6	20603.2	21853.9	24011.9	24443.3	25274.5
STATION ALTITUDE 3989.00 FEET MSL 20 JULY 61 1030 MRS MDT ASCENSION NO. 465		P.ÆSSUR		MILLIBAR	.82•5	0°020	d33.2	195.6	700+0	041.2	9*625	537.8	527.1	521.4	500.0	181• 181	n•85h	#5u-8	. 413.6	0.004

,		'			UPPER AIR DAI	AIA			
STALLOW ALTITUD 29 JULY 61 650-15108 60	700E	3989.00 FEET USU 108n ARS MDT 18	MDT		2010020465 WHITE SANUS	યે રે		GEODE T1 32.	GEODETIC COORDINATES 32.40043 LAT DEG 106.47043 LOJ GEO
				•	TABLE 19				200 100 100 100 100 100 100 100 100 100
GEOM, TRIL	PRESSURE	E	I EMPERATURÉ	REL . HUM.	DENSITY	SPEEN OF	. INU DATA	TA	INIT
ALTITUDE	(AIR	DEWPOINT	PERCENT	ر	Sound	DINE . TION	SPEED	40
4SL FEET	riILLIBARS	DEGREES	CENTIGRADE		METER	NOTS	DEGREF S(TW)	KNOTS	KEFRACT10N
3989.0	842.9	30.8	11.7	31.0	1005.5	681.2	3+10+0	0.9	1.000241
0.000 ⊁	984.2	30.8	11.7	31,1	1005.2	681.2	350 • 1	0.9	1.000281
4500.0	861.2	29.3	12.5	35,7	992.5	679.7	358.0	4.8	1.000282
5000·0	852.5	27.9	13•1	40.5	980.1	678.2	10.4	3.8	1.000282
5500.0	830.0	26.5	12.1	41.0	964.1	6,979	5.6 0	3.1	1.000276
0.0000	823.6	25.7	11.2	40.3	954.3	675.5	44.6	2.6	1.000269
0.500.0	80%	25.2	10.3	39.1	939.7	674.9	12.4	2.2	1.000263
20000	795.6	24.7	#• 6	38.0	925.3	2.429	110.0	2.4	1.000257
7500.0	781.7	23.4	8•9	39.7	913.4	5.570	47.3	2.4	1.000253
3.00ng	760.0	22.0	•	41.3	901.6	671.1	40.t	2.5	1.000249
9-0005	754.6	20.7	1.6	43.0	89n.1	4.690	63.5	5.6	1.000244
0.0006	741.4	19.3	•	9•44	878.7	667.9	57.4	2.8	1.000240
9500.0	720.4	17.9	6.3	46.3	867.4	6666.3	55•4	3.0	1.000236
10000	/10./	16.6		47.9	855.4	664.7	50.6		1.000232
10500.0	703.5	15.2	æ (⇒ (9.64	845.5	063-1	52.7	3.2	1.000228
0.00.011	0.060	14.0	D •	50.6	834.1	661.6	41.7	0. 0.	1.000223
12000-0	66th	9-11	100	10 to	911 5	7.000 7.000	7.0:		1.0001
12503.0	654.0	10.4	1 6	53.1	800.4	657.3	1.65	9	1.000210
15000.0	642.3	9.5	3	53.9	784.5	655°B	£ 500	11.2	1.000206
13500.6	630.9	7.9		57.0	77H.h	654 • 3	2000	12.4	1.000203
14000.0	610.9	9•9	 5	60.3	767.9		6.75	13.0	1.000200
14500.0	607.5	5•3	-1.0	63.6	757.3	_	6•69	13.6	1.000196
_	0.000 	0.0	-1.6	66.9	747.0		7.4.7	14.3	1.000193
15500.0	080°	2.7	-2.5	70.2	73h. H		D. 70	14.8	1.000190
0.00.001	0.470	5 • F		8°07	72h.h		70.5	15.3	1.00186
10500.0	2000	N .		68.5	716.4	042.0	6•1°	14.5	1.000161
J•00077	1555	-1-1	9.9-	/•69	702.	543.4	T•0€	13.3	1.000176
0.005/1	7.240		-8.5	63.2	64P.	7. Tho	7.0f	11.5	1.000172
13000.9	525.4		0.8-	70.5	68h.1	940.5	ジ・ナケ	9.3	1.000170
16590.0	522.5	C • † •	0	59.5	674.7	n39.4	192.0	7.2	1.000164
19009-0	212.5	8.5	-12.4	55.2	663.9	634.7	9 · 50	0.9	1.000160
19500.0	205.5	-5.7	-13.4	24.5	•	637.7	A1.3	5.3	1.000157
700000	8.264	-6.2	-15.8	46.4	642.3	6,060	0.69	6.1	1.000153
20500.0	48.03	-6.7	-19.5	36.1	631.3	636+2	01.0	6.9	1.000148
21000·D	0.474	-7.7	-21.1	33.0	621.4	635+0	ye.9	7.1	1.000145
21500.0	8.404	-8.8	-22.5	31.8	612.0	633.7	5.2.1	7.8	1.000142
22000-2	8.00±	6.6-	-23.2	32.6	602.0	632.4	49.1	0.6	1.000139
42500.n	;	-10.9	-22.4	37.9	592.4	631.2	40. I	10.1	1.000138
23000.0	436.0	-11.8	-21.3	43.2	58.5.4	1.0cg	J•D+	11.3	1.000136

STATION ALITHUE 3989.00 FEET R.S. 20 JULY 51	.11TUDE 39	89.00 FE	E1 6.5L R BT		OFFR AIN DAIN 2010020405 WHITE SANDS	ปล โภ :uts ปร		11 ODE 11	0.E ODE TIC COOKOTIVATES 52-40043 EAT 116
ASCERSTON	1:0. 465			•	TABLE 19 CON'T	T'NO		106.	106-37033 Lud DEG
GFOWF TRIC PRESSURE	PRESSURE	FER	TEMPERATURE	REL.HIM.	DENSITY	SPECIO OF	AINU UNI.	4 L	Itan X
ALTITUDE	HILLIUARS	AIK DEGREES	AIR DEWPOINT NILLIUARS DECRIES CENTIGRADE	PERCENT	PERCENT GM/CUBIC SOUND METER KNOTS	SCOLED	DIRECTION SPEED DEGREES(IN) KNOTS	SPEEU KNOTS	OF REFRACTION
23580.0	423.	-12.8	-21.4	48.5	574.1	574.1 623.4	45.1	11.8	1 • 00001 34
0.00042	4~1.0	-13.8	-21.1	53.9	564.9	627.1			1.000132
24500-9	\$		-27.4	32.0	555.2	6,079			1.000127
25000.0	7		-26.1	†•0	547.11	5.020			1.000126

0E0DETIC COORDINATES 32-401143 LAT 0E6 106-57033 LOTI 10FG		DIN CIION SPEED DEGREES(TN) KNOIS	13.1 5.6	99.7					87.7 12.7			
ivel.S Ss Ss	KEL • MU.1 • PERCENT		41.	38.	• † †	50.	53•	30.	b 5•	54.	36.	45.
I ANDATORY LEVELS 20,100,20405 WHITE SAMUS TABLE 20	TFMFERATURE AIR DEVPOINT DEGKLES CENTIGRALE		13.2	4.6	7•4	‡ •	 	-1.4	-7.1	-13.7	-22.1	-25•h
- 1	L TFM;	DEGILLES	27.6	54.9	20.5	14.9	10.0	t) • t)	-1.4	-5.9	-10.5	-16.5
1 ,4SL	PRESQUIE GEUPOTENTIAL	FELT	5033.	6636 .	8681.	10t.18.	12 ₆₆₀ .	14025.	17128.	19599.	22288.	25231.
STALLOW ALLITUDL 3989.00 FLET MSL 20 JULY W1 1030 RS MD. ASCELISIOL NO. 465	9 JYNCZCOYE 0!	MILLIDANS	9.02A	U•908	0.067	0.007	U-064	€.00-3	550.0	0.50%	u50.0	0.001

END

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